

## *Gyrinophilus porphyriticus porphyriticus* (Northern Spring Salamander)

### Priority 2 Species of Greatest Conservation Need (SGCN)

**Class:** *Amphibia* (Amphibians)

**Order:** *Caudata* (Salamanders)

**Family:** *Plethodontidae* (Lungless Salamanders)

#### General comments:

Headwater stream specialist; existing habitat regulations inadequate; 5 of 6 reviewers recommend SC listing

#### Species Conservation Range Maps for Northern Spring Salamander:

Town Map: [Gyrinophilus porphyriticus porphyriticus\\_Towns.pdf](#)

Subwatershed Map: [Gyrinophilus porphyriticus porphyriticus\\_HUC12.pdf](#)

#### SGCN Priority Ranking - Designation Criteria:

**Risk of Extirpation:** NA

**State Special Concern or NMFS Species of Concern:**

*Gyrinophilus porphyriticus porphyriticus* is listed as a species of Special Concern in Maine.

**Recent Significant Declines:** NA

**Regional Endemic:** NA

**High Regional Conservation Priority:**

**Committee on the Status of Endangered Wildlife in Canada (COSEWIC):**

Status: T, Last Examination: 5/1/2011, Change: Reassigned, Canada Occurrence: QC

**High Climate Change Vulnerability:** NA

**Understudied rare taxa:** NA

**Historical:** NA

**Culturally Significant:** NA

#### Habitats Assigned to Northern Spring Salamander:

##### Formation Name      Freshwater Aquatic

**Macrogroup Name**      Rivers and Streams

**Habitat System Name:** Ephemeral

**Habitat System Name:** Headwaters and Creeks      **\*\*Primary Habitat\*\***

**Habitat System Name:** Small River

##### Formation Name      Northeastern Upland Forest

**Macrogroup Name**      Northern Hardwood & Conifer

**Habitat System Name:** Appalachian (Hemlock)-Northern Hardwood Forest

**Habitat System Name:** Laurentian-Acadian Northern Hardwoods Forest

**Habitat System Name:** Laurentian-Acadian Pine-Hemlock-Hardwood Forest

#### Stressors Assigned to Northern Spring Salamander:

| Stressor Priority Level based on Severity and Actionability | Moderate Severity          |  | High Severity |  |
|---|----------------------------|--|---------------|--|
|   | Highly Actionable          |  | Medium-High   |  |
|   | Moderately Actionable      |  | Medium        |  |
|   | Actionable with Difficulty |  | Low           |  |

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#### **IUCN Level 1 Threat      Biological Resource Use**

**IUCN Level 2 Threat:**      Logging and Wood Harvesting

**Severity:** Moderate Severity

**Actionability:** Moderately actionable

**Notes:** Headwater streams receive limited protections; intensive forestry in the shoreland zone can affect water quality and riparian habitat quality and function

#### **IUCN Level 1 Threat      Energy Production and Mining**

**IUCN Level 2 Threat:**      Renewable Energy

**Severity:** Moderate Severity

**Actionability:** Moderately actionable

**Notes:** Wind energy development; headwater streams receive limited protections; habitat loss and degradation of the shoreland zone affects water quality and riparian habitat quality and function

#### **IUCN Level 1 Threat      Residential and Commercial Development**

**IUCN Level 2 Threat:**      Housing and Urban Areas

**Severity:** Moderate Severity

**Actionability:** Moderately actionable

**Notes:** Headwater streams receive limited protections; habitat loss and degradation of the shoreland zone affects water quality and riparian habitat quality and function

### **Species Level Conservation Actions Assigned to Northern Spring Salamander:**

None. *Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.*

### **Guild Level Conservation Actions:**

This Species is currently not attributed to a guild.

### **Broad Taxonomic Group Conservation Actions:**

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

### **Habitat Based Conservation Actions:**

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

*The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.*